

## MAP LEGEND



Buffer Area



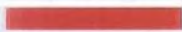
Property Line (100ft Buffer)



North Symbol



Surface Water



Field Boundary



rck

Rock Outcrop (25ft Buffer)



Severe Slope/Erosion



Sink Hole (100ft Buffer)



Intermittent Stream (100ft Buffer)



Occupied Dwelling/Structures/Well (200ft Buffer)



Frequently Flooded Area/Drainage Way/Wet Spot



Public Roadway (10ft Buffer)



Road Map Hauling Route



OSR/Public Access Sites (400ft Buffer)



Public Water Supply/Additional Water Well (100ft Buffer)

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 14 JUNE 2014 between BLACKTONE TIMBER referred to here as "Landowner", and Nutri-Blend Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in NOTTOWAY Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

to receive biosolids, water treatment		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
25-3-A1		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

GEORGE A. RAGSDALE PRESIDENT  
Landowner - Printed Name, Title

Signature

Mailing Address

Phone Number 434 9792990

6300 APPLEBERRY MOUNTAIN TRAIL  
FABER, VA. 22938

**Permittee:**

Nutri-Blend Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

William M. Burnett  
Permittee - Authorized Representative  
Printed Name

Signature

P.O. Box 38060 Richmond, Va. 23231  
Mailing Address

Permittee: Nutri-Blend Inc

County or City: NOTTOWAY Co.

Landowner: George A. Ragsdale PRESIDENT BLACKSTONE TIMBER

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

**2. Public Access**

a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;

c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

**3. Crop Restrictions:**

a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,

c. Food crops with harvested parts below the surface of the land shall not be harvested for 36 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

**4. Livestock Access Restrictions:**

Following biosolids application to pasture or hayland sites:

a. Meat producing livestock shall not be grazed for 30 days,

b. Lactating dairy animals shall not be grazed for a minimum of 60 days.

c. Other animals shall be restricted from grazing for 30 days;

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

George A. Ragsdale 14 JUNE 2014

Landowner's Signature

Date



# NutriBlend

BIO SOLIDS LAND APPLICATION

## RAGSDALE

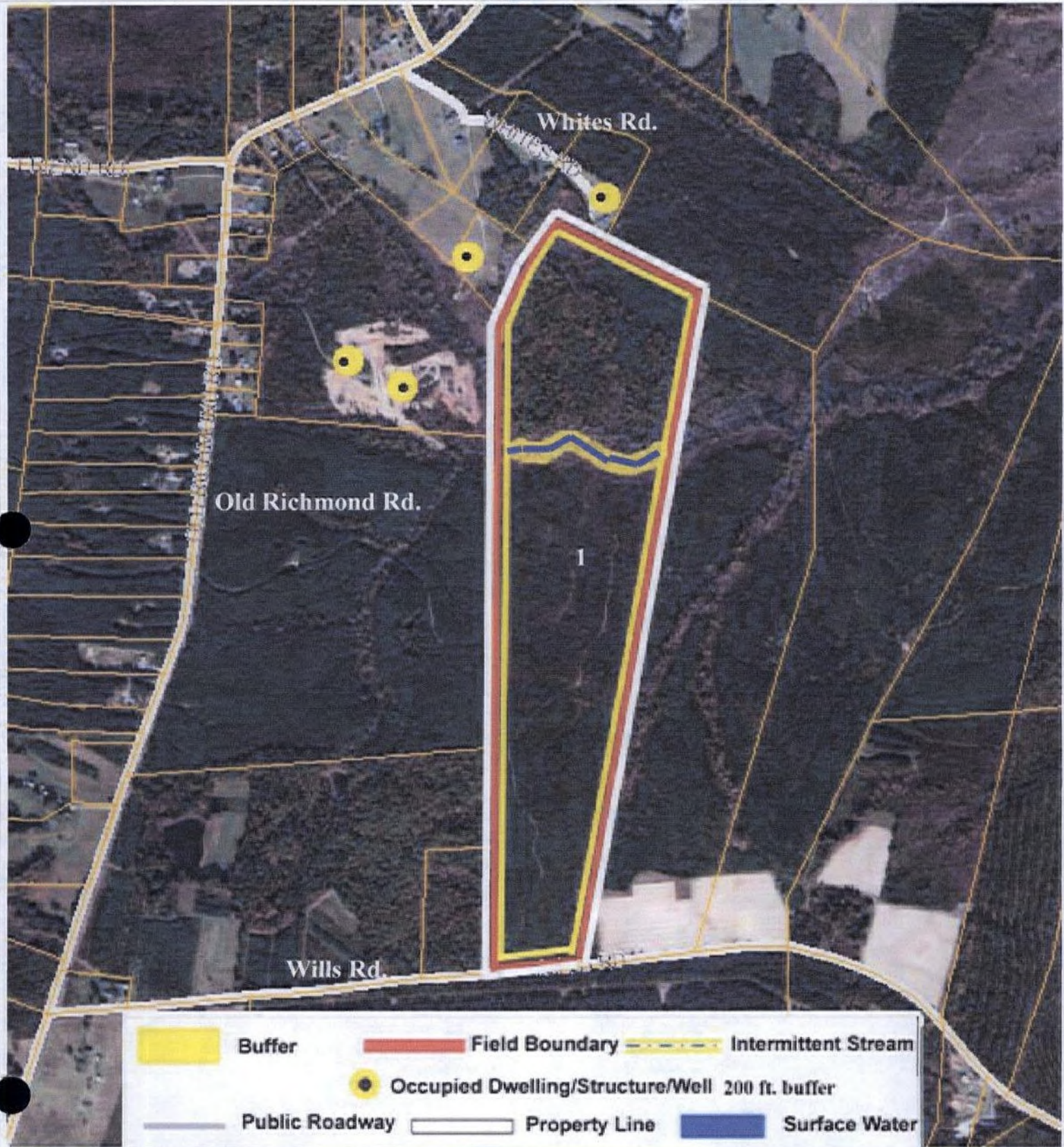






**NOTTOWAY  
COUNTY**

# Blackstone Timber G.A. Ragsdale T-25





# NutriBlend

BIOSOLIDS LAND APPLICATION

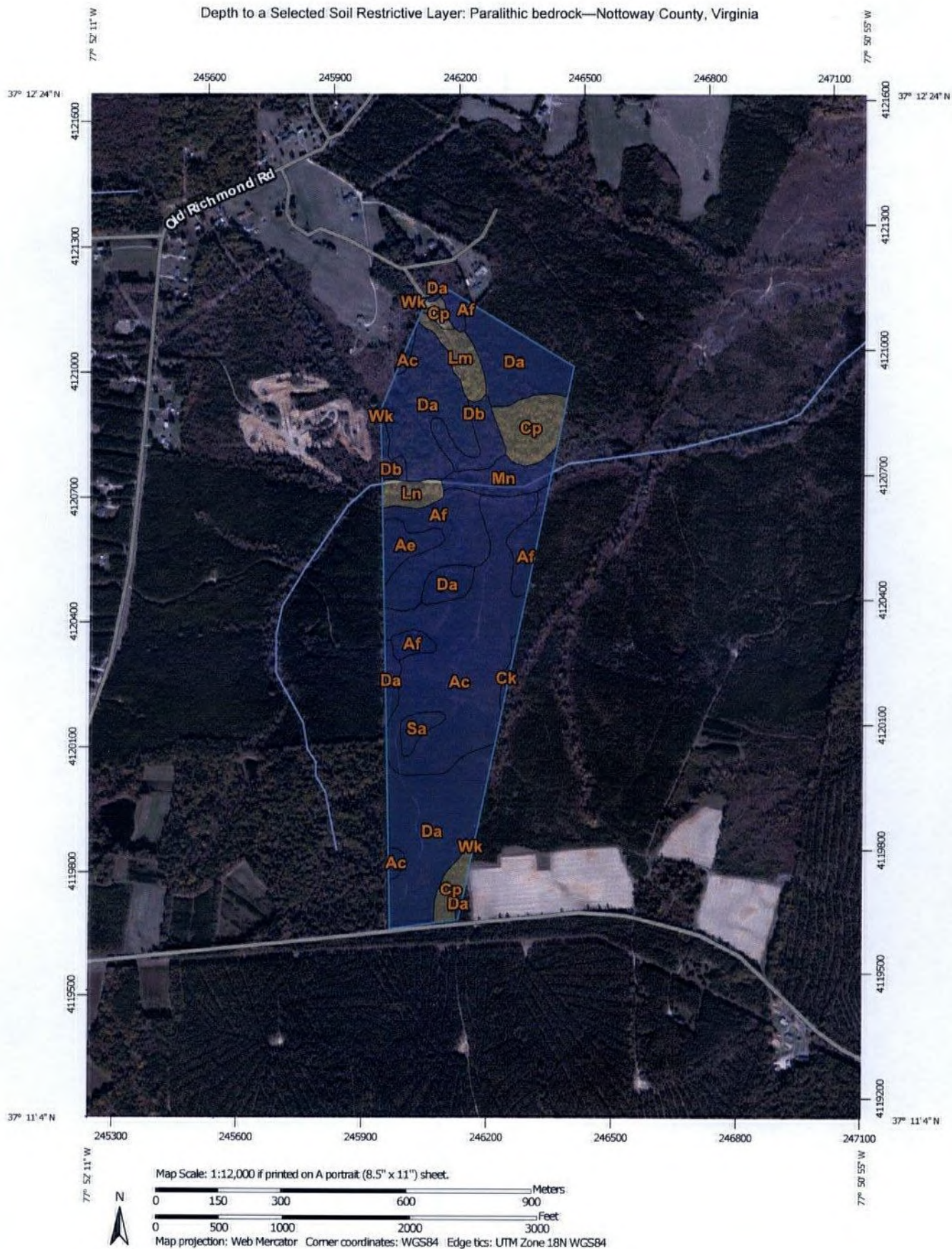
## BLACKSTONE TIMBER T-25

Old Richmond Rd





Depth to a Selected Soil Restrictive Layer: Paralithic bedrock—Nottoway County, Virginia
































Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

10/22/2015  
Page 1 of 4



## MAP LEGEND

<b>Area of Interest (AOI)</b>		Area of Interest (AOI)		Not rated or not available
<b>Soils</b>			<b>Water Features</b>	
<b>Soil Rating Polygons</b>				Streams and Canals
	0 - 25		<b>Transportation</b>	
	25 - 50			Rails
	50 - 100			Interstate Highways
	100 - 150			US Routes
	150 - 200			Major Roads
	> 200			Local Roads
	Not rated or not available		<b>Background</b>	
				Aerial Photography
<b>Soil Rating Lines</b>				
	0 - 25			
	25 - 50			
	50 - 100			
	100 - 150			
	150 - 200			
	> 200			
	Not rated or not available			
<b>Soil Rating Points</b>				
	0 - 25			
	25 - 50			
	50 - 100			
	100 - 150			
	150 - 200			
	> 200			

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Nottoway County, Virginia  
Survey Area Data: Version 10, Dec 16, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2010—Nov 8, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## Depth to a Selected Soil Restrictive Layer: Paralithic bedrock

Depth to a Selected Soil Restrictive Layer: Paralithic bedrock— Summary by Map Unit — Nottoway County, Virginia (VA135)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
Ac	Appling coarse sandy loam, undulating phase	>200	30.4	26.6%
Ae	Appling coarse sandy loam, rolling phase	>200	2.8	2.4%
Af	Appling coarse sandy loam, eroded rolling phase	>200	14.5	12.7%
Ck	Cecil fine sandy loam, rolling phase	>200	0.4	0.4%
Cp	Coffax sandy loam, undulating phase	71	8.3	7.3%
Da	Durham coarse sandy loam, undulating phase	>200	41.9	36.6%
Db	Durham coarse sandy loam, rolling phase	>200	4.8	4.2%
Lm	Louisburg sandy loam, hilly phase	66	3.1	2.7%
Ln	Louisburg sandy loam, eroded hilly phase	66	2.2	2.0%
Mn	Mixed alluvial land	>200	4.2	3.7%
Sa	Seneca sandy loam	>200	1.5	1.3%
Wk	Worsham sandy loam	>200	0.3	0.2%
<b>Totals for Area of Interest</b>			<b>114.5</b>	<b>100.0%</b>



## Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to the user selected type of restrictive layer as described in for each map unit. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

## Rating Options

*Units of Measure:* centimeters

*Restriction Kind:* Paralithic bedrock

*Aggregation Method:* Dominant Component

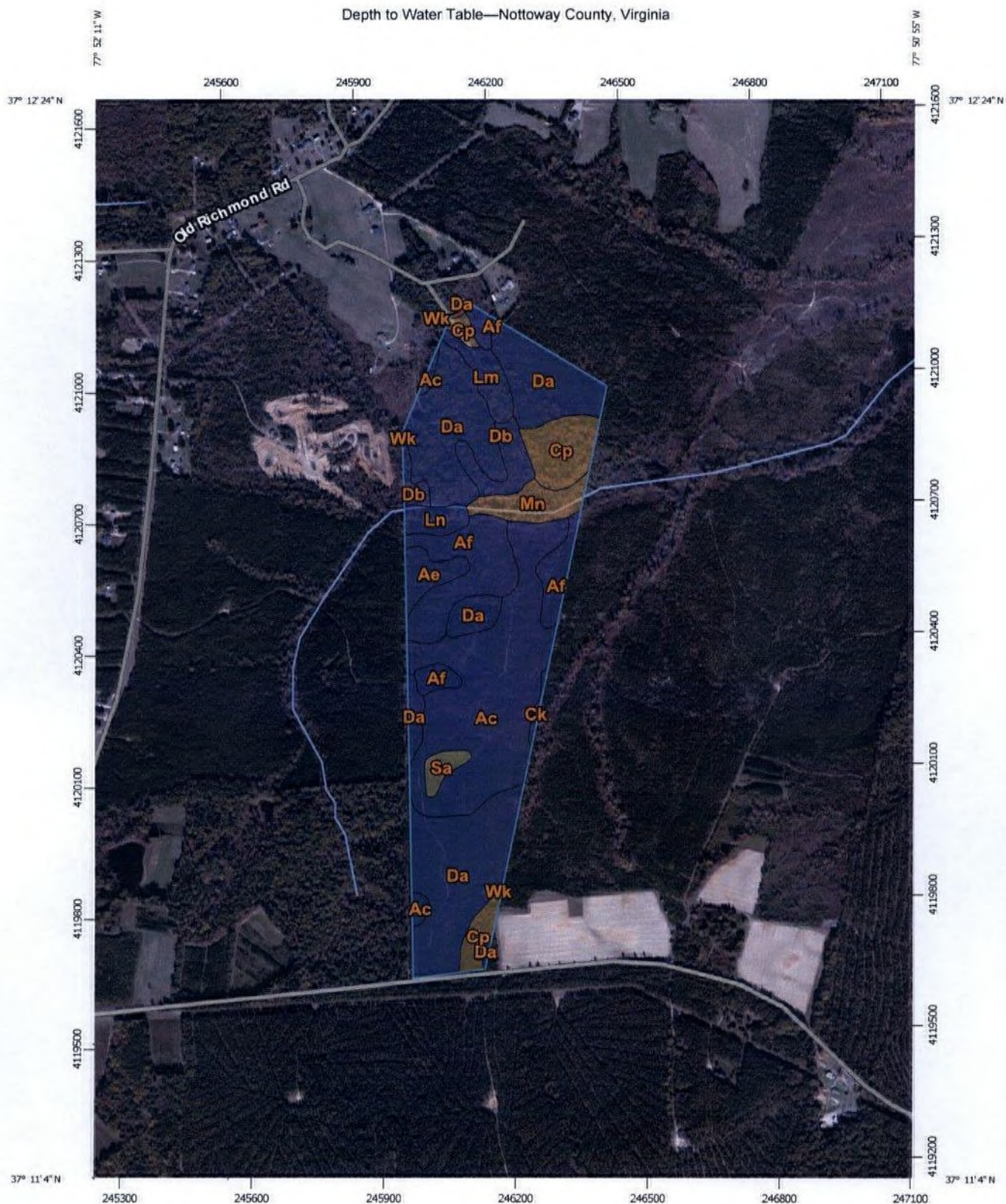
*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Lower

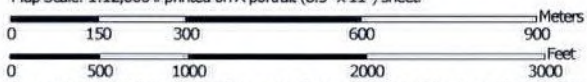
*Interpret Nulls as Zero:* No



# Depth to Water Table—Nottoway County, Virginia



Map Scale: 1:12,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 18N WGS84
































**Natural Resources  
Conservation Service**

Web Soil Survey  
National Cooperative Soil Survey

10/22/2015  
Page 1 of 4



## MAP LEGEND

<b>Area of Interest (AOI)</b>	 Not rated or not available
 Area of Interest (AOI)	
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<b>Soil Rating Polygons</b>	 Streams and Canals
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 25 - 50	 Rails
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 100 - 150	 US Routes
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 > 200	 Local Roads
 Not rated or not available	<b>Background</b>
<b>Soil Rating Lines</b>	 Aerial Photography
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 25 - 50	
 50 - 100	
 100 - 150	
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 > 200	
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<b>Soil Rating Points</b>	
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Survey Area Data: Version 10, Dec 16, 2013

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Date(s) aerial images were photographed: Jul 4, 2010—Nov 8, 2010

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## Depth to Water Table

Depth to Water Table— Summary by Map Unit — Nottoway County, Virginia (VA135)				
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Cp	Colfax sandy loam, undulating phase	31	8.3	7.3%
Da	Durham coarse sandy loam, undulating phase	>200	41.9	36.6%
Db	Durham coarse sandy loam, rolling phase	>200	4.8	4.2%
Lm	Louisburg sandy loam, hilly phase	>200	3.1	2.7%
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Mn	Mixed alluvial land	31	4.2	3.7%
Sa	Seneca sandy loam	84	1.5	1.3%
Wk	Worsham sandy loam	15	0.3	0.2%
Totals for Area of Interest			114.5	100.0%

## Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

## Rating Options

*Units of Measure:* centimeters



*Aggregation Method:* Dominant Component

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Lower

*Interpret Nulls as Zero:* No

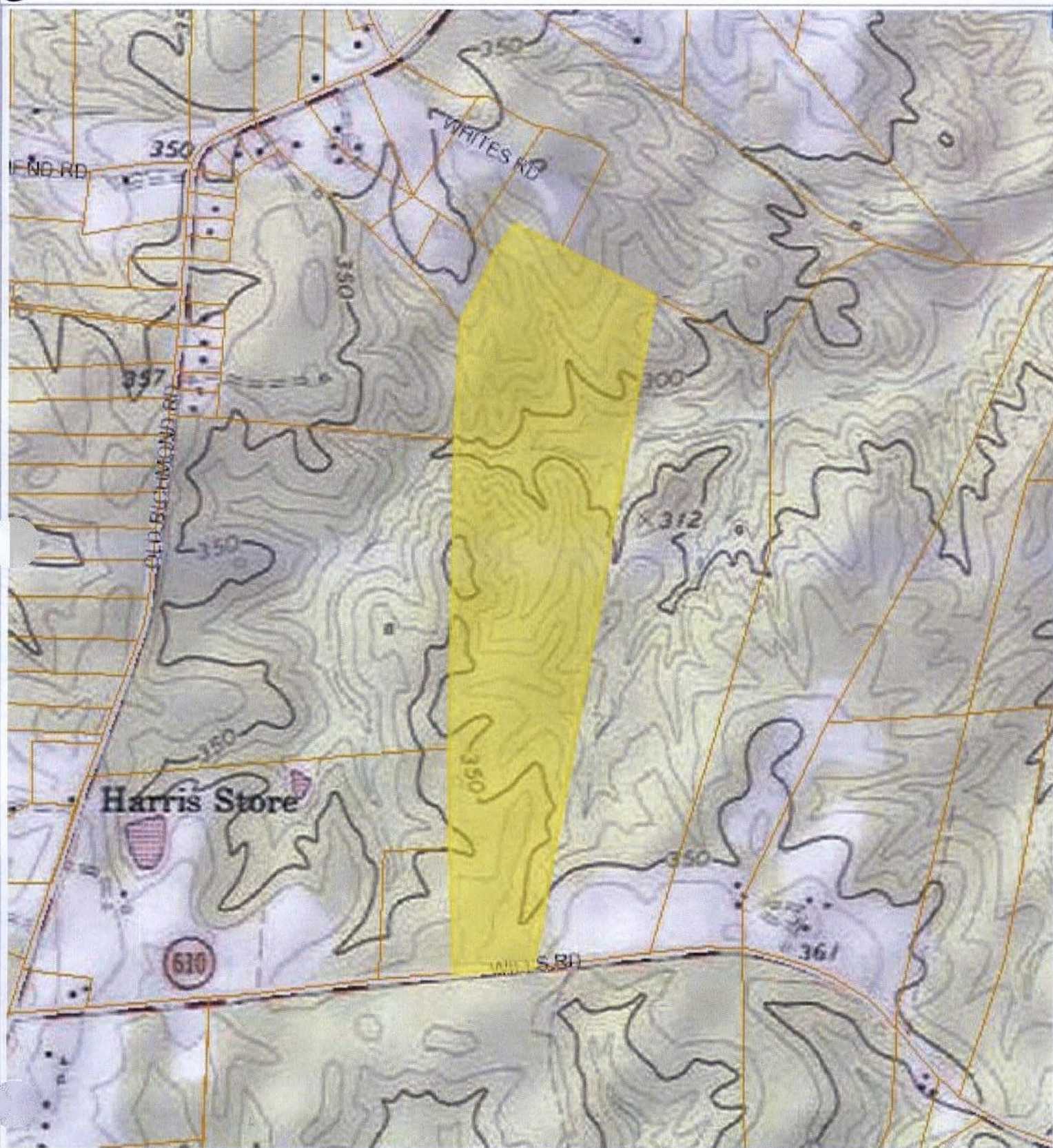
*Beginning Month:* January

*Ending Month:* December



**NOTTOWAY  
COUNTY**

# BLACKSTONE TIMBER T-25



Scale: 1:18055.954822

Date: 05/27/2015

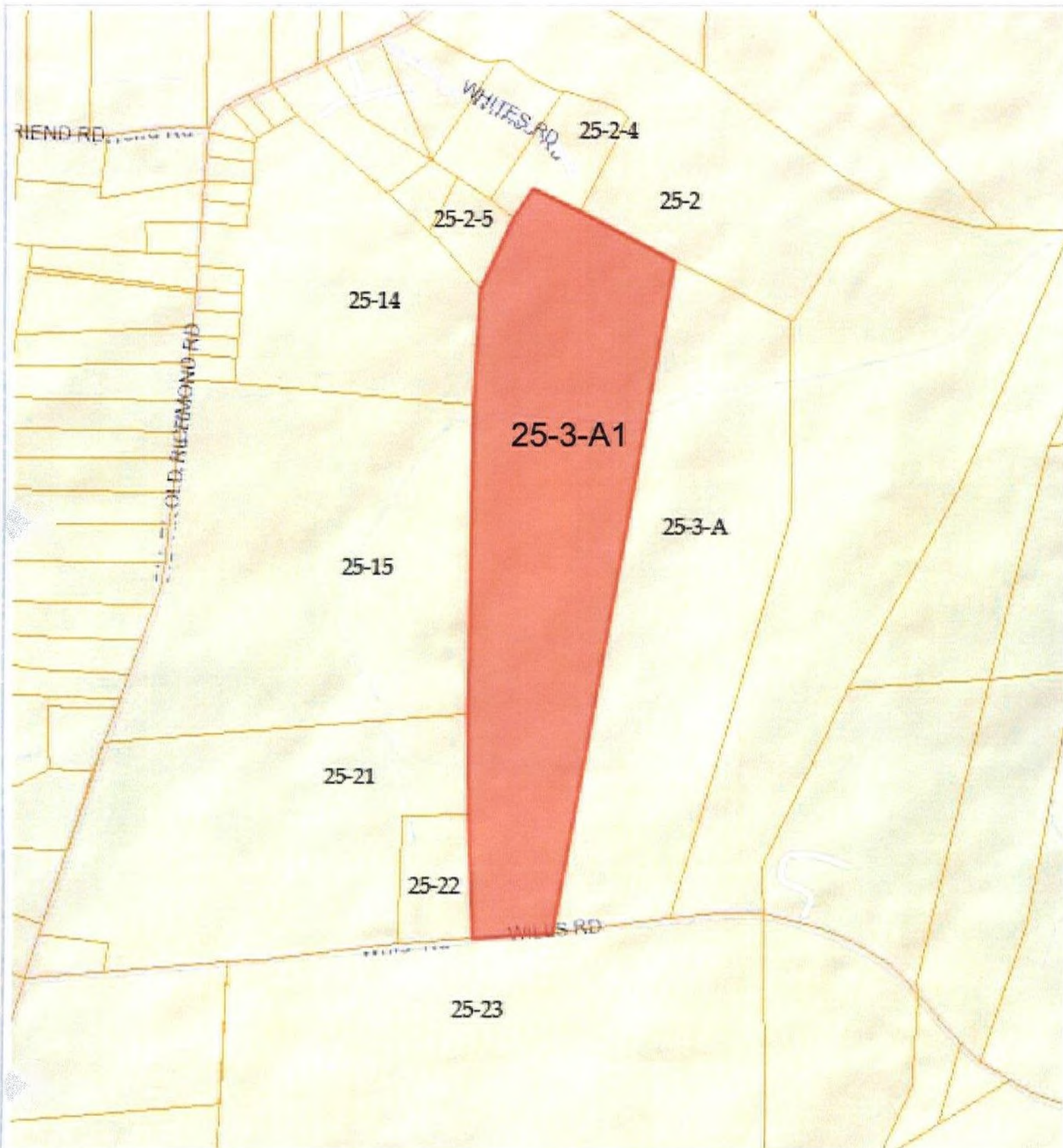
Printed By:





**NOTTOWAY  
COUNTY**

# BLACKSTONE TIMBER T-25



Scale: 1:18055.954822

Date: 05/27/2015

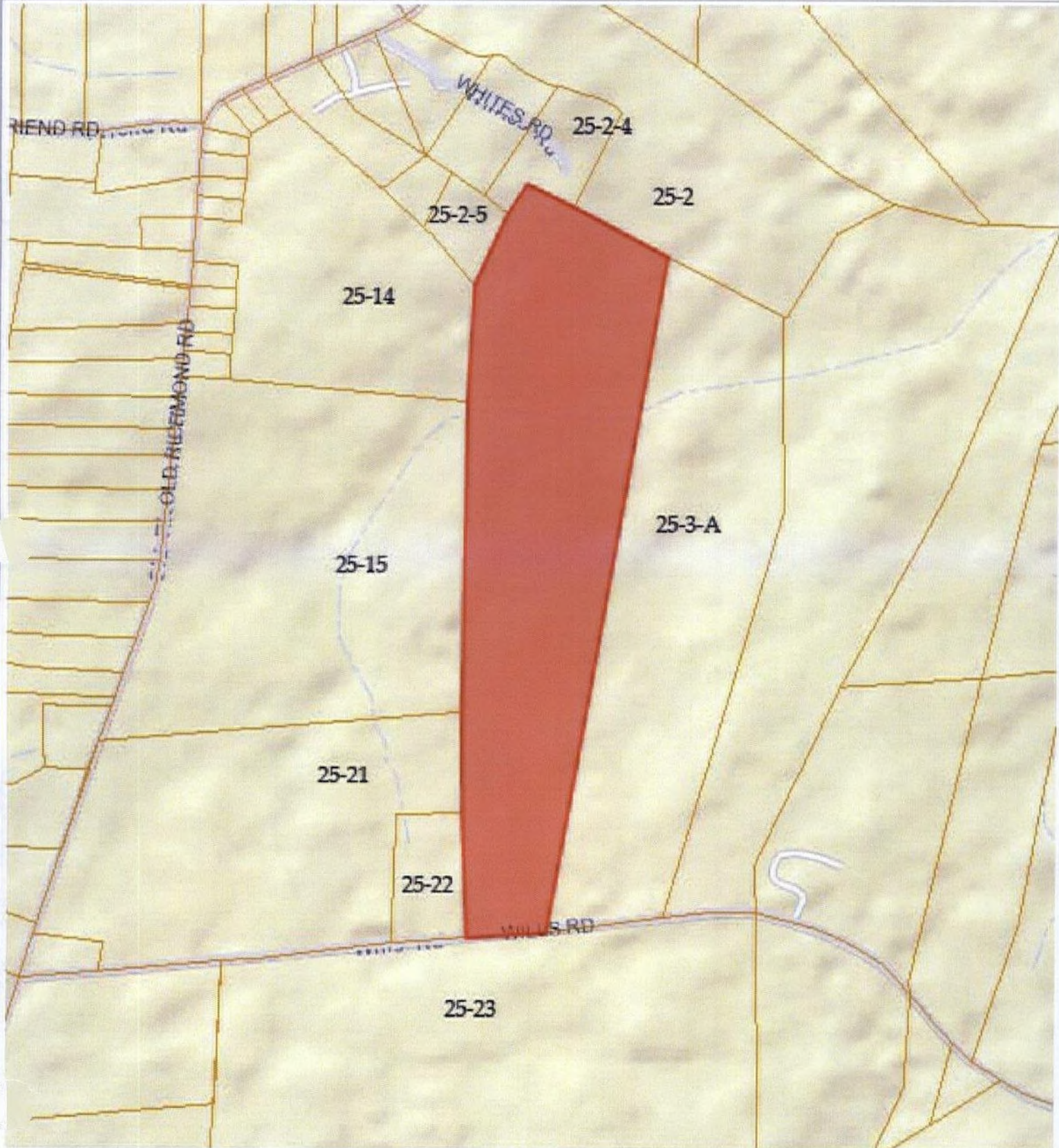
Printed By:





**NOTTOWAY  
COUNTY**

# BLACKSTONE TIMBER T-25



Scale: 1:18055.954822

Date: 05/27/2015

Printed By:



**Ragsdale Farm**  
**Tract T-25**  
**Field Data Sheet**

Field	Total	Field Coordinates	
	Acres	Latitude	Longitude
1	100.12	37.193834	-77.860235
1	100.12		

**Watershed Code**

**JA29**

**Tax ID**

**25-3-A1**

**Owner**

**Blackstone Timber**

**Site Type**

**Forested**

**Ag. Practice**

**See NMP for yearly Crop Rotation**